RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	10/049, 587
Source:	JFW16
Date Processed by STIC:	12/12/2005
	

ENTERED



IFW16

```
RAW SEQUENCE LISTING
                                                             DATE: 12/12/2005
                    PATENT APPLICATION: US/10/049,587 TIME: 10:03:51
                     Input Set : A:\Nihw-2-1.app
                    Output Set: N:\CRF4\12122005\J049587.raw
     3 <110> APPLICANT: Brenneman, Douglas E.
             Gozes, Illana
     5
             Spong, Catherine Y.
             Pinhasov, Albert
      6
     7
             Giladi, Eliezer
     8
             Ramot University Authority for Applied Research &
     9
             Industrial Development Ltd.
     10
             The Government of the United States
     11
             as represented by The Secretary of the
     12
             Department of Health and Human Services
     14 <120> TITLE OF INVENTION: Orally Active Peptides That Prevent Cell Damage
and
    15
             Death
    17 <130> FILE REFERENCE: 15280W-002100US
     19 <140> CURRENT APPLICATION NUMBER: US 10/049,587
     20 <141> CURRENT FILING DATE: 2002-02-12
     22 <150> PRIOR APPLICATION NUMBER: US 60/149,956
    23 <151> PRIOR FILING DATE: 1999-08-18
    25 <150> PRIOR APPLICATION NUMBER: WO PCT/US00/22861
    26 <151> PRIOR FILING DATE: 2000-08-17
    28 <160> NUMBER OF SEQ ID NOS: 19
    30 <170> SOFTWARE: PatentIn Ver. 2.1
    32 <210> SEQ ID NO: 1
    33 <211> LENGTH: 9
    34 <212> TYPE: PRT
    35 <213> ORGANISM: Artificial Sequence
    37 <220> FEATURE:
    38 <223> OTHER INFORMATION: Description of Artificial Sequence:activity
             dependent neurotrophic factor I (ADNF I) active
             core site, ADNF-9, SAL
    42 <400> SEQUENCE: 1
    43 Ser Ala Leu Leu Arg Ser Ile Pro Ala
    47 <210> SEQ ID NO: 2
    48 <211> LENGTH: 8
    49 <212> TYPE: PRT
    50 <213> ORGANISM: Artificial Sequence
    52 <220> FEATURE:
    53 <223> OTHER INFORMATION: Description of Artificial Sequence:activity
    54
             dependent neuroprotective protein (ADNP or ADNF
             III) active core site, ADNF III-8, NAP
    57 <400> SEQUENCE: 2
    58 Asn Ala Pro Val Ser Ile Pro Gln
```

DATE: 12/12/2005

```
PATENT APPLICATION: US/10/049,587 TIME: 10:03:51
                Input Set : A:\Nihw-2-1.app
                Output Set: N:\CRF4\12122005\J049587.raw
    62 <210> SEQ ID NO: 3
    63 <211> LENGTH: 89
    64 <212> TYPE: PRT
    65 <213> ORGANISM: Artificial Sequence
    67 <220> FEATURE:
    68 <223> OTHER INFORMATION: Description of Artificial Sequence: ADNF I
polypeptide
    70 <220> FEATURE:
    71 <221> NAME/KEY: MOD RES
    72 <222> LOCATION: (1..40)
    73 <223> OTHER INFORMATION: Xaa = any amino acid, Xaa at positions 1-40 may be
          present or absent
    76 <220> FEATURE:
    77 <221> NAME/KEY: MOD_RES
    78 <222> LOCATION: (50..89)
    79 <223> OTHER INFORMATION: Xaa = any amino acid, Xaa at positions 50-89 may
be
           present or absent
    82 <400> SEQUENCE: 3
84 1
                    5
                                    10
20
                                25
W--> 89 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ser Ala Leu Leu Arg Ser Ile Pro
             35
                             40
93
70
                                       75
    96 65
W--> 98 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
    102 <210> SEQ ID NO: 4
    103 <211> LENGTH: 88
    104 <212> TYPE: PRT
    105 <213> ORGANISM: Artificial Sequence
    107 <220> FEATURE:
    108 <223> OTHER INFORMATION: Description of Artificial Sequence: ADNF III
polypeptide
    110 <220> FEATURE:
    111 <221> NAME/KEY: MOD RES
    112 <222> LOCATION: (1..40)
    113 <223> OTHER INFORMATION: Xaa = any amino acid, Xaa at positions 1-40 may
be
    114
           present or absent
    116 <220> FEATURE:
    117 <221> NAME/KEY: MOD RES
    118 <222> LOCATION: (49..88)
    119 <223> OTHER INFORMATION: Xaa = any amino acid, Xaa at positions 49-88 may
be
           present or absent
    120
    122 <400> SEQUENCE: 4
124
                                     10
```

RAW SEQUENCE LISTING

DATE: 12/12/2005

TIME: 10:03:51

Input Set : A:\Nihw-2-1.app Output Set: N:\CRF4\12122005\J049587.raw 127 20 25 W--> 129 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Asn Ala Pro Val Ser Ile Pro Gln 50 55 136 65 70 W--> 138 Xaa Xaa Xaa Xaa Xaa Xaa Xaa 139 85 142 <210> SEQ ID NO: 5 143 <211> LENGTH: 5 144 <212> TYPE: PRT 145 <213> ORGANISM: Artificial Sequence 147 <220> FEATURE: 148 <223> OTHER INFORMATION: Description of Artificial Sequence:1-R in formula for ADNF I polypeptide 151 <400> SEQUENCE: 5 152 Val Leu Gly Gly Gly 153 1 156 <210> SEQ ID NO: 6 157 <211> LENGTH: 10 158 <212> TYPE: PRT 159 <213> ORGANISM: Artificial Sequence 161 <220> FEATURE: 162 <223> OTHER INFORMATION: Description of Artificial Sequence:1-R in formula for ADNF I polypeptide 165 <400> SEQUENCE: 6 166 Val Glu Glu Gly Ile Val Leu Gly Gly Gly 170 <210> SEQ ID NO: 7 171 <211> LENGTH: 5 172 <212> TYPE: PRT 173 <213> ORGANISM: Artificial Sequence 175 <220> FEATURE: 176 <223> OTHER INFORMATION: Description of Artificial Sequence:3-R or 4-R in formula for ADNF III polypeptide 179 <400> SEQUENCE: 7 180 Leu Gly Leu Gly Gly 181 1 184 <210> SEQ ID NO: 8 185 <211> LENGTH: 8 186 <212> TYPE: PRT 187 <213> ORGANISM: Artificial Sequence 189 <220> FEATURE: 190 <223> OTHER INFORMATION: Description of Artificial Sequence:3-R in formula for ADNF III polypeptide 193 <400> SEQUENCE: 8 194 Ser Val Arg Leu Gly Leu Gly Gly 195 5

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/049,587

DATE: 12/12/2005

TIME: 10:03:51

Input Set : A:\Nihw-2-1.app Output Set: N:\CRF4\12122005\J049587.raw 198 <210> SEQ ID NO: 9 199 <211> LENGTH: 4 200 <212> TYPE: PRT 201 <213> ORGANISM: Artificial Sequence 203 <220> FEATURE: 204 <223> OTHER INFORMATION: Description of Artificial Sequence: 2-R in formula for ADNF I polypeptide 207 <400> SEQUENCE: 9 208 Val Leu Gly Gly 209 212 <210> SEQ ID NO: 10 W--> 213 <400> SEQUENCE: 10 W--> 214 000 217 <210> SEQ ID NO: 11 218 <211> LENGTH: 5 219 <212> TYPE: PRT 220 <213> ORGANISM: Artificial Sequence 222 <220> FEATURE: 223 <223 > OTHER INFORMATION: Description of Artificial Sequence: 2-R in formula for ADNF I polypeptide 226 <400> SEQUENCE: 11 227 Gly Val Leu Gly Gly 228 1 231 <210> SEQ ID NO: 12 232 <211> LENGTH: 4 233 <212> TYPE: PRT 234 <213> ORGANISM: Artificial Sequence 236 <220> FEATURE: 237 <223> OTHER INFORMATION: Description of Artificial Sequence:4-R in formula for ADNF III polypeptide 240 <400> SEQUENCE: 12 241 Leu Gly Leu Gly 242 245 <210> SEQ ID NO: 13 246 <211> LENGTH: 5 247 <212> TYPE: PRT 248 <213> ORGANISM: Artificial Sequence 250 <220> FEATURE: 251 <223> OTHER INFORMATION: Description of Artificial Sequence:4-R in formula for ADNF III polypeptide 254 <400> SEQUENCE: 13 255 Val Leu Gly Gly Val 256 259 <210> SEQ ID NO: 14 260 <211> LENGTH: 14 261 <212> TYPE: PRT 262 <213> ORGANISM: Artificial Sequence 264 <220> FEATURE: 265 <223> OTHER INFORMATION: Description of Artificial Sequence: ADNF I polypeptide

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/049,587

```
DATE: 12/12/2005
                     RAW SEQUENCE LISTING
                     PATENT APPLICATION: US/10/049,587
                                                            TIME: 10:03:51
                     Input Set : A:\Nihw-2-1.app
                     Output Set: N:\CRF4\12122005\J049587.raw
    267 <400> SEQUENCE: 14
    268 Val Leu Gly Gly Gly Ser Ala Leu Leu Arg Ser Ile Pro Ala
                           5
    272 <210> SEO ID NO: 15
    273 <211> LENGTH: 19
    274 <212> TYPE: PRT
     275 <213> ORGANISM: Artificial Sequence
     277 <220> FEATURE:
     278 <223> OTHER INFORMATION: Description of Artificial Sequence: ADNF I
polypeptide
     280 <400> SEQUENCE: 15
     281 Val Glu Glu Gly Ile Val Leu Gly Gly Gly Ser Ala Leu Leu Arg Ser
     282
                                              10
    284 Ile Pro Ala
    287 <210> SEQ ID NO: 16
    288 <211> LENGTH: 13
    289 <212> TYPE: PRT
     290 <213> ORGANISM: Artificial Sequence
     292 <220> FEATURE:
     293 <223> OTHER INFORMATION: Description of Artificial Sequence: ADNF I
polypeptide
     295 <400> SEQUENCE: 16
     296 Leu Gly Gly Gly Ser Ala Leu Leu Arg Ser Ile Pro Ala
     300 <210> SEO ID NO: 17
     301 <211> LENGTH: 12
     302 <212> TYPE: PRT
     303 <213> ORGANISM: Artificial Sequence
     305 <220> FEATURE:
     306 <223> OTHER INFORMATION: Description of Artificial Sequence: ADNF I
polypeptide
     308 <400> SEQUENCE: 17
     309 Gly Gly Ser Ala Leu Leu Arg Ser Ile Pro Ala
                                              10
     310 1
                           5
     313 <210> SEQ ID NO: 18
     314 <211> LENGTH: 11
     315 <212> TYPE: PRT
     316 <213> ORGANISM: Artificial Sequence
     318 <220> FEATURE:
     319 <223> OTHER INFORMATION: Description of Artificial Sequence: ADNF 'I
polypeptide
     321 <400> SEQUENCE: 18
     322 Gly Gly Ser Ala Leu Leu Arg Ser Ile Pro Ala
     326 <210> SEQ ID NO: 19
     327 <211> LENGTH: 10
     328 <212> TYPE: PRT
     329 <213> ORGANISM: Artificial Sequence
     331 <220> FEATURE:
     332 <223> OTHER INFORMATION: Description of Artificial Sequence:ADNF I
polypeptide
     334 <400> SEQUENCE: 19
     335 Gly Ser Ala Leu Leu Arg Ser Ile Pro Ala
```

336 1 5 10

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 12/12/2005 PATENT APPLICATION: US/10/049,587 TIME: 10:03:52

Input Set : A:\Nihw-2-1.app

Output Set: N:\CRF4\12122005\J049587.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220>

to <223> fields of each sequence which presents at least one n or Xaa.

```
Seq#:3; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22
Seq#:3; Xaa Pos. 23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,50
Seq#:3; Xaa Pos. 51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69
Seq#:3; Xaa Pos. 70,72,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88
Seq#:3; Xaa Pos. 89
Seq#:4; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22
Seq#:4; Xaa Pos. 23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,49
Seq#:4; Xaa Pos. 50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68
Seq#:4; Xaa Pos. 69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87
Seq#:4; Xaa Pos. 86
```

VERIFICATION SUMMARY DATE: 12/12/2005 PATENT APPLICATION: US/10/049,587 TIME: 10:03:52

Input Set : A:\Nihw-2-1.app

Output Set: N:\CRF4\12122005\J049587.raw

```
L:83 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:86 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:16
L:89 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:32
L:92 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:48
L:95 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:64
L:98 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:80
L:123 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:126 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:16
L:129 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:32
L:132 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:48
L:135 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:64
L:138 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:64
L:138 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:80
L:213 M:283 W: Missing Blank Line separator, <400> field identifier
L:214 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (10) SEQUENCE:
```